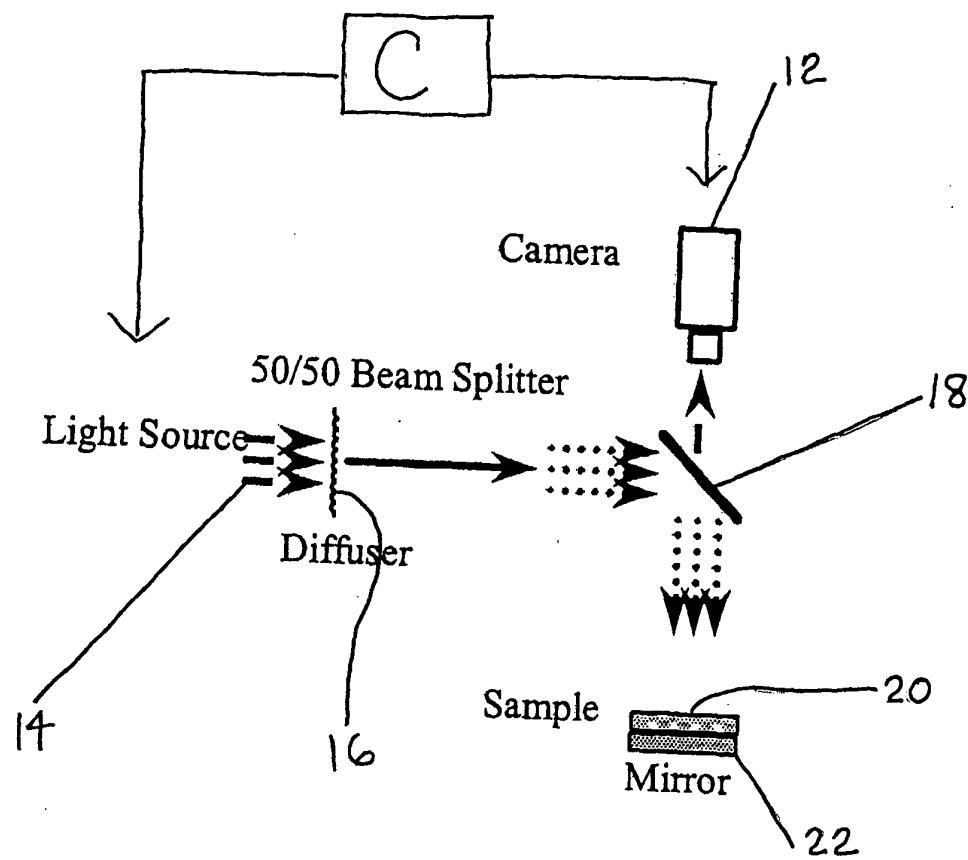


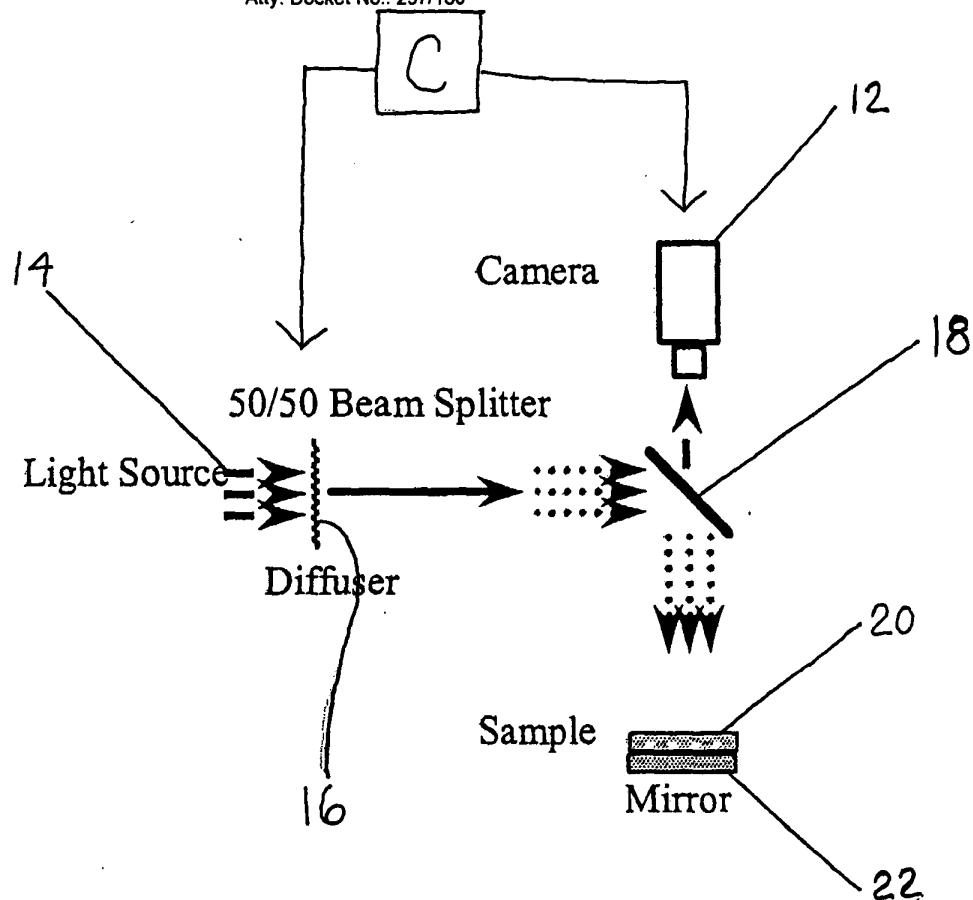
Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180



Arrangement 1

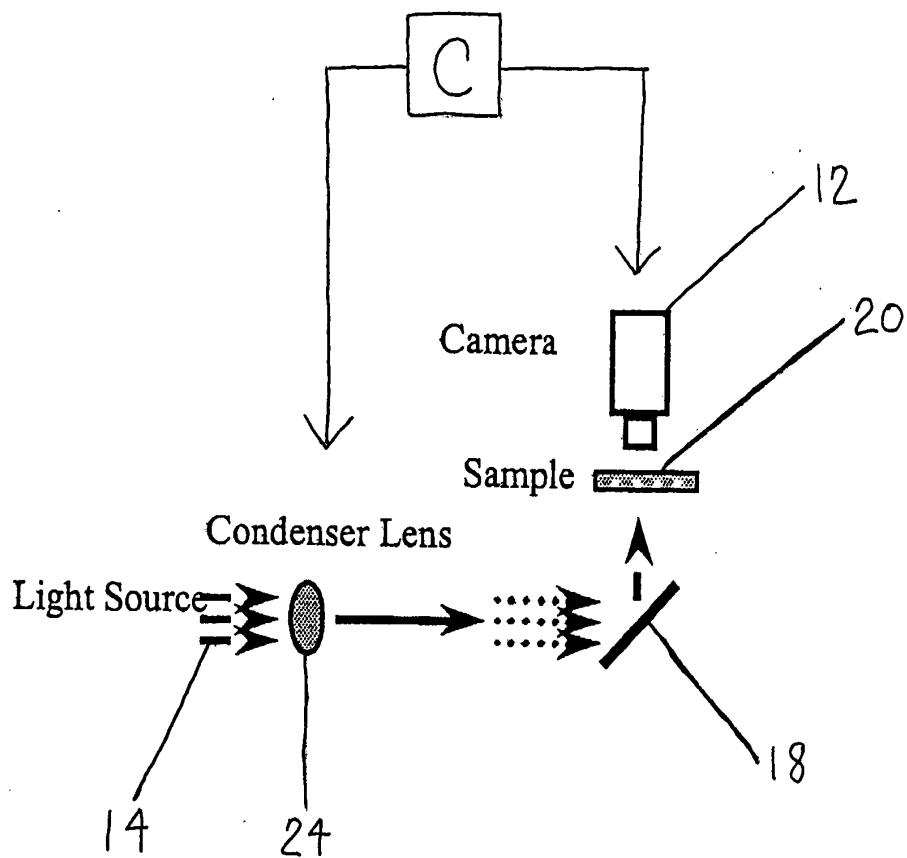
FIG. 1A

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180



Arrangement 2

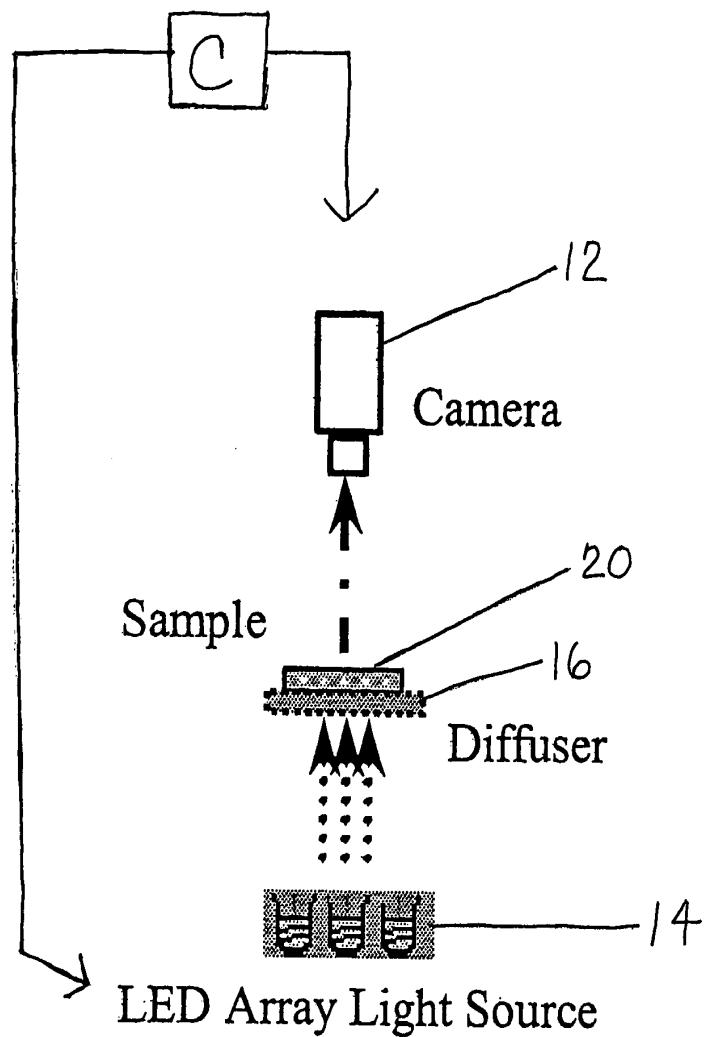
FIG. 1B



Arrangement 3

FIG. 1C

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180



Arrangement 4

FIG. 1D

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF

Applicant(s): Behnam Pourdeyhimi

Atty. Docket No.: 297/180

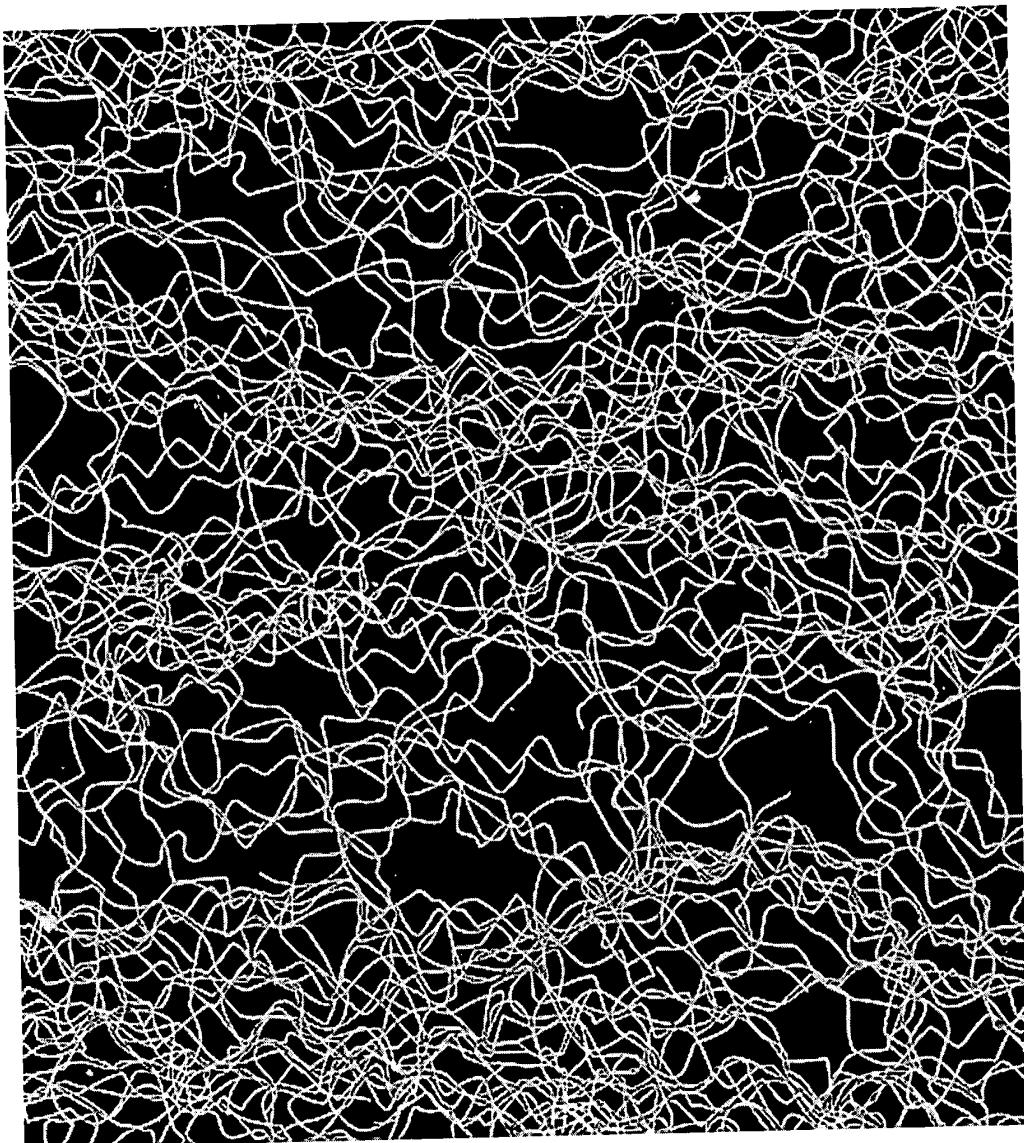


Fig. 2

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

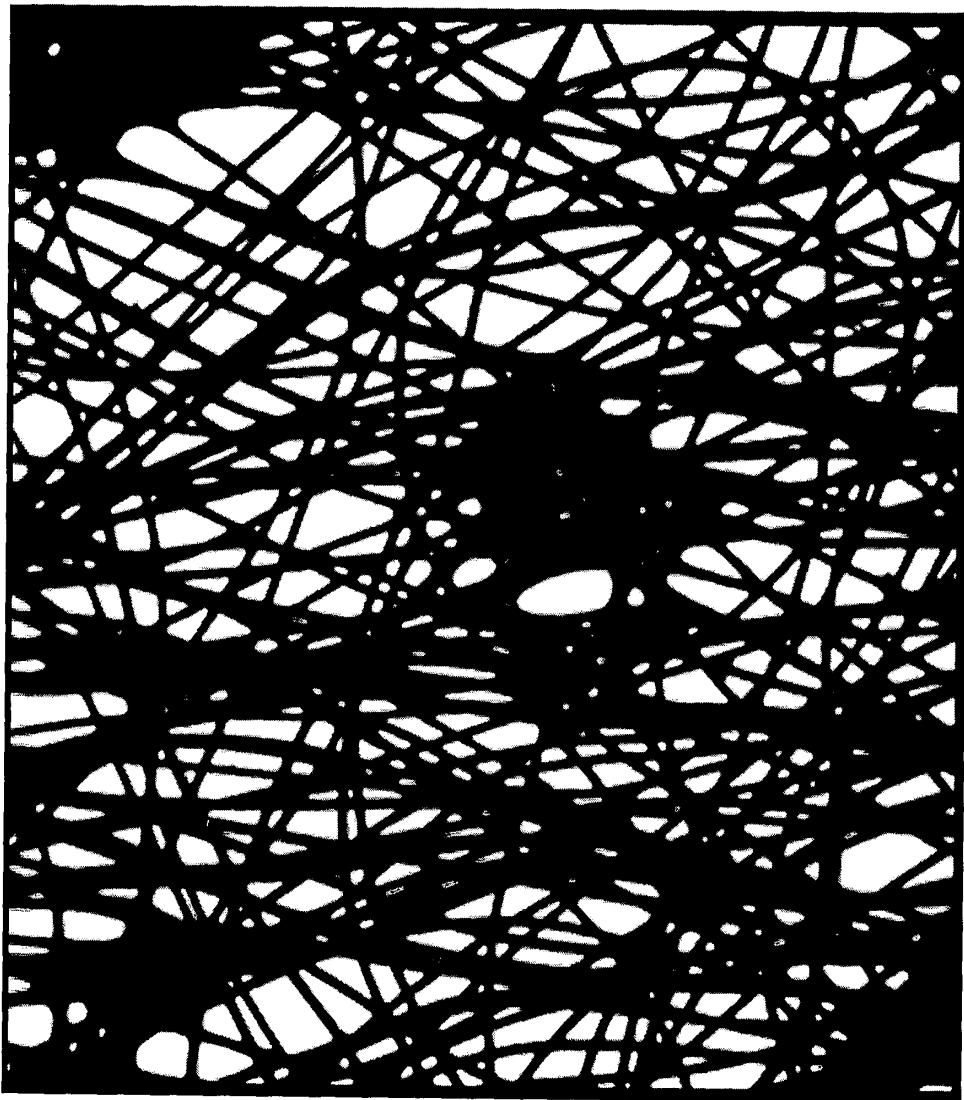


Fig. 3

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

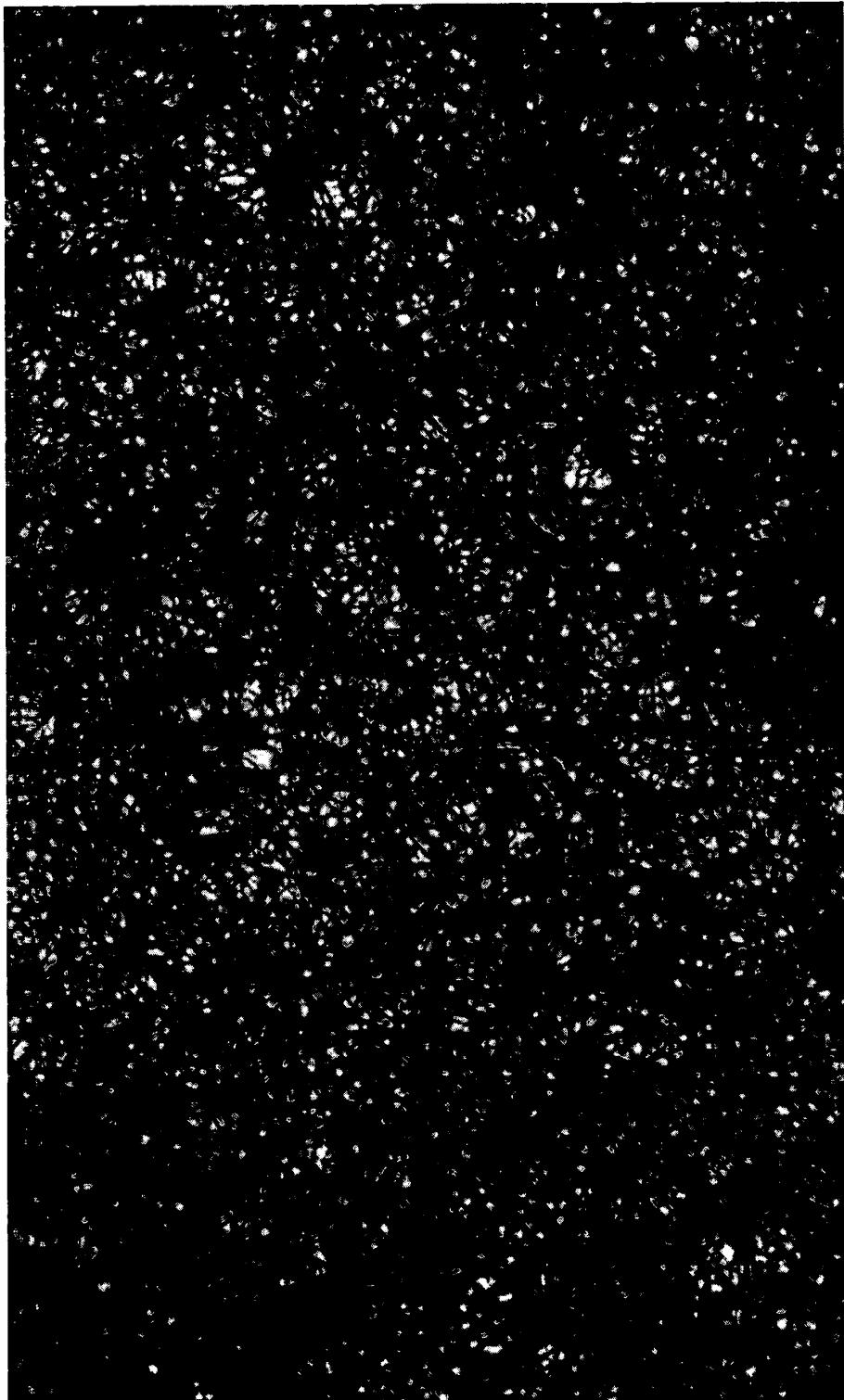


Fig. 4

Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF

Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

Mean
Stddev

= 90
= 0

Mean
Stddev

= 90
= 15

Mean
Stddev

= 90
= 30

Mean
Stddev

= 90
= 45

Random

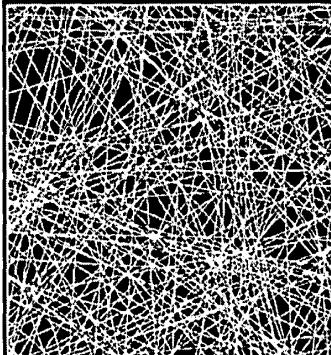
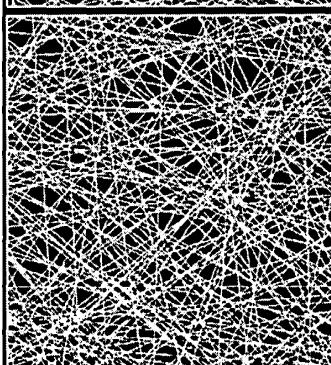
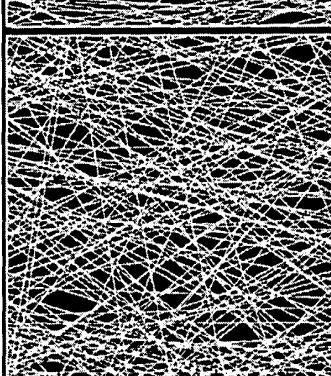
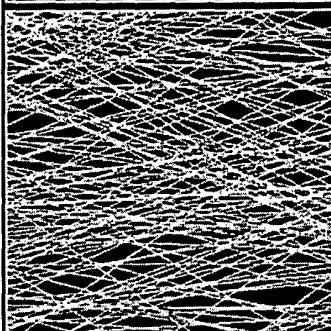
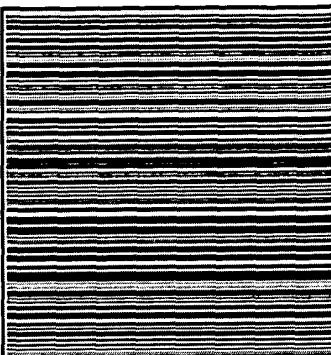


FIG. 5A

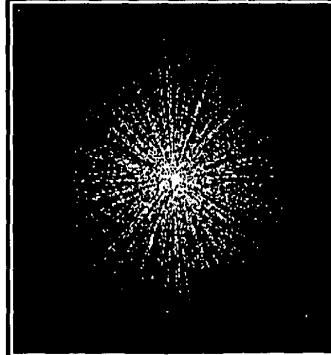
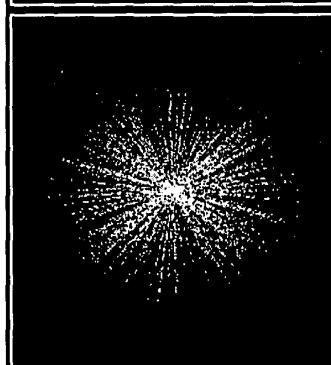
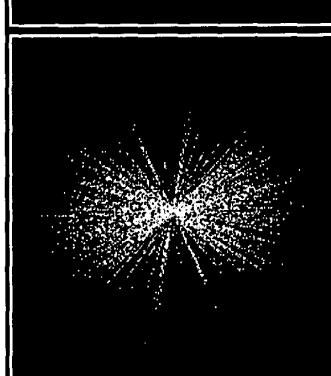
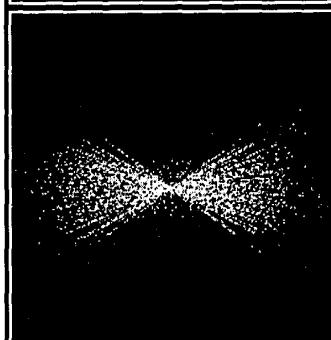
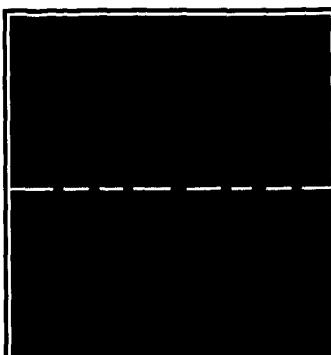
FIG. 5B

FIG. 5C

FIG. 5D

FIG. 5E

Fig. 5



Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF

Applicant(s): Behnam Pourdeyhimi
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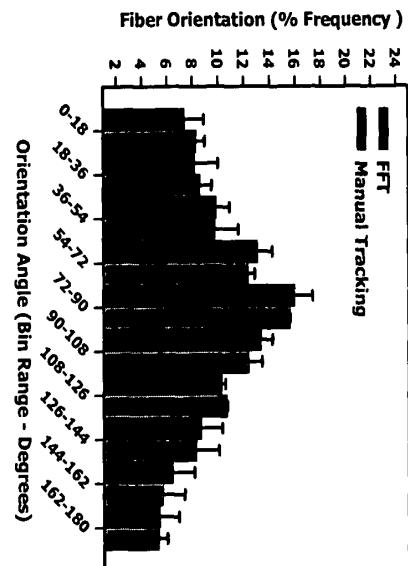


FIG. 6A

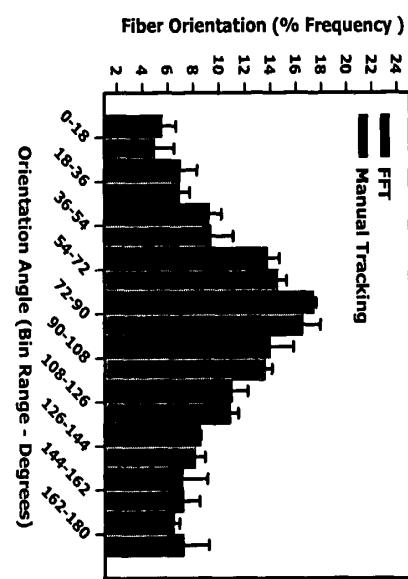


FIG. 6B

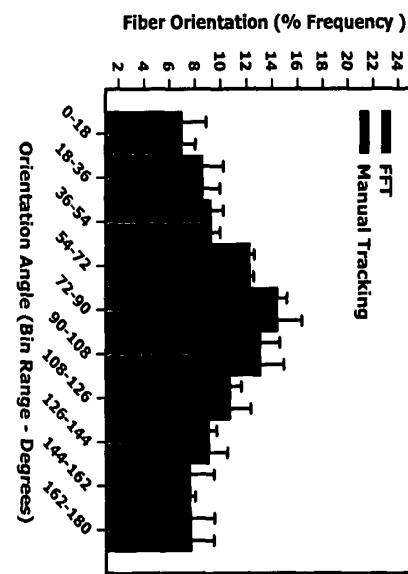
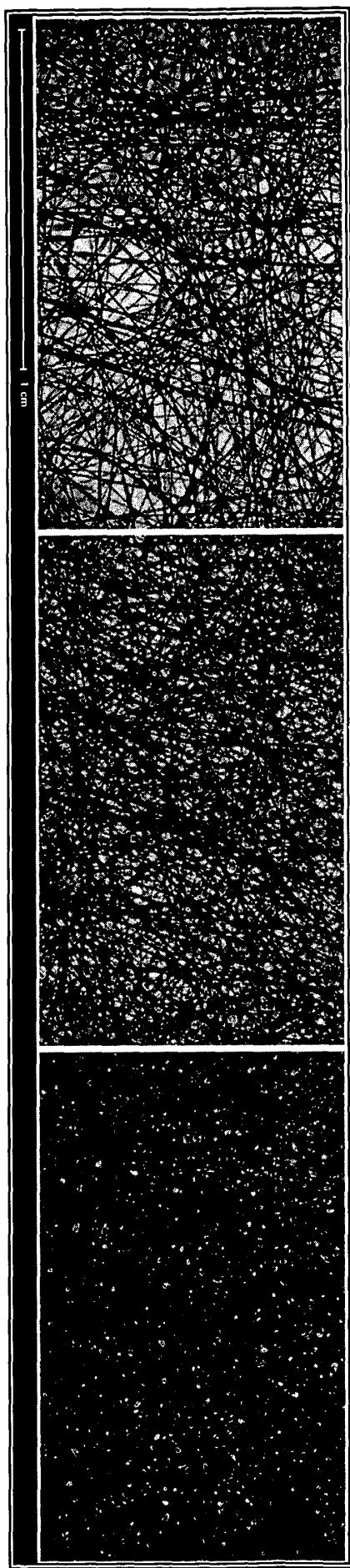


FIG. 6C
Fig. 6



Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

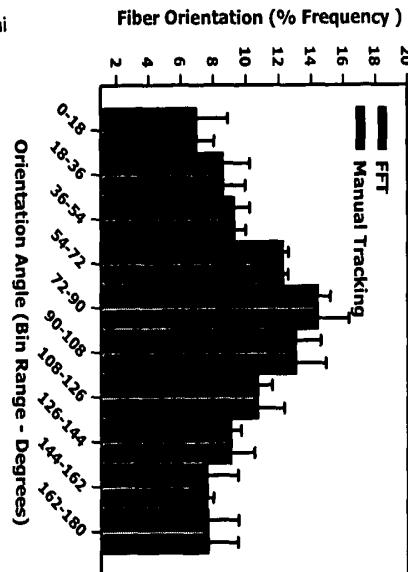


FIG. 7A

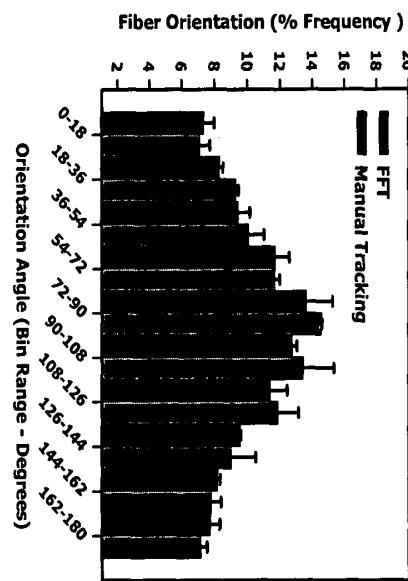


FIG. 7B

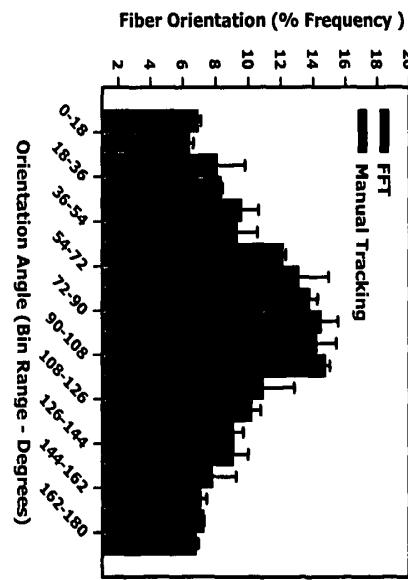
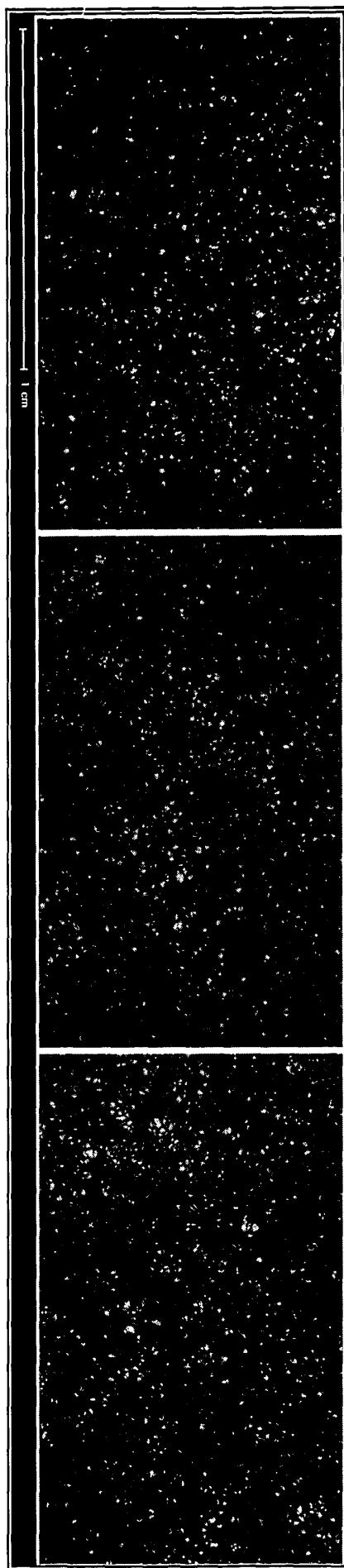


FIG. 7C



Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF

Applicant(s): Behnam Pourdeyhimi

Atty. Docket No.: 297/180

Increasing non-uniformity



Fig. 8

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

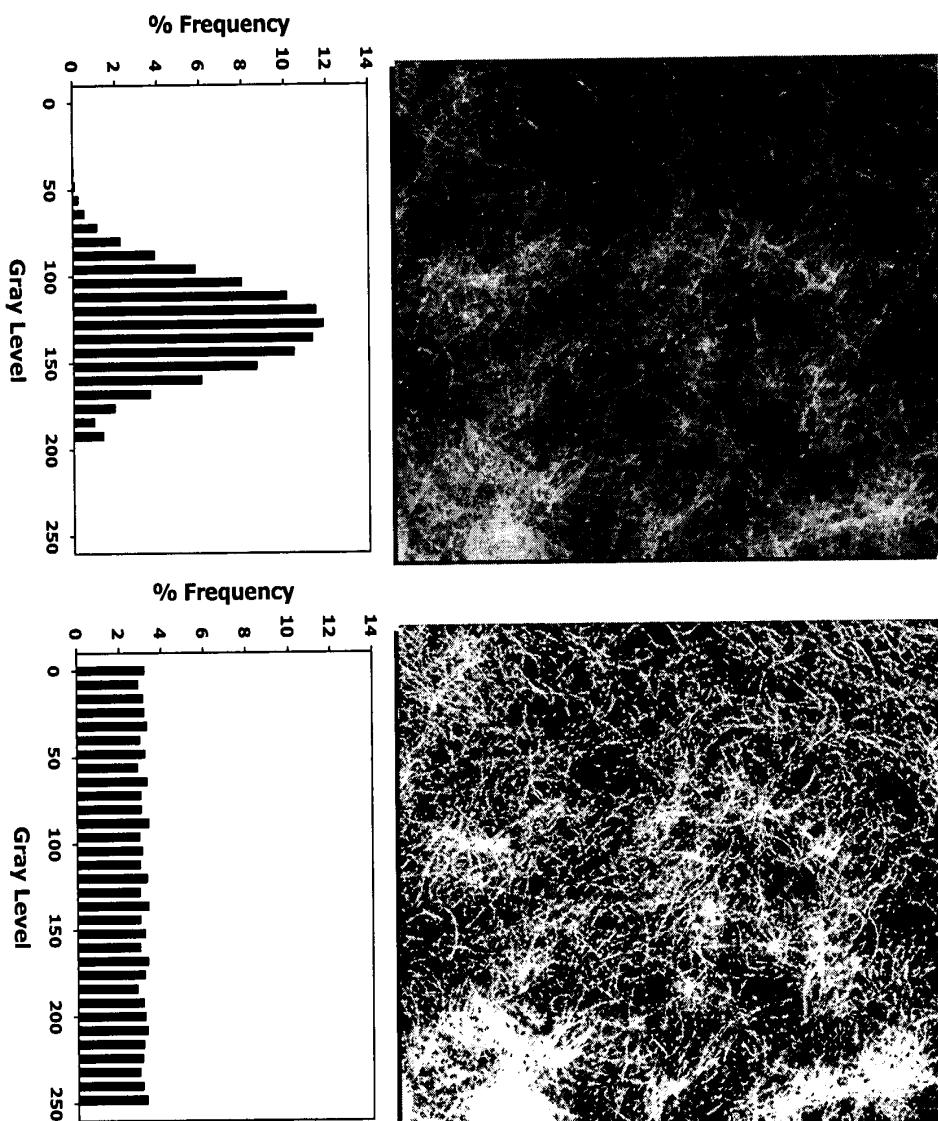


FIG. 9A

FIG. 9B

Fig. 9

Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

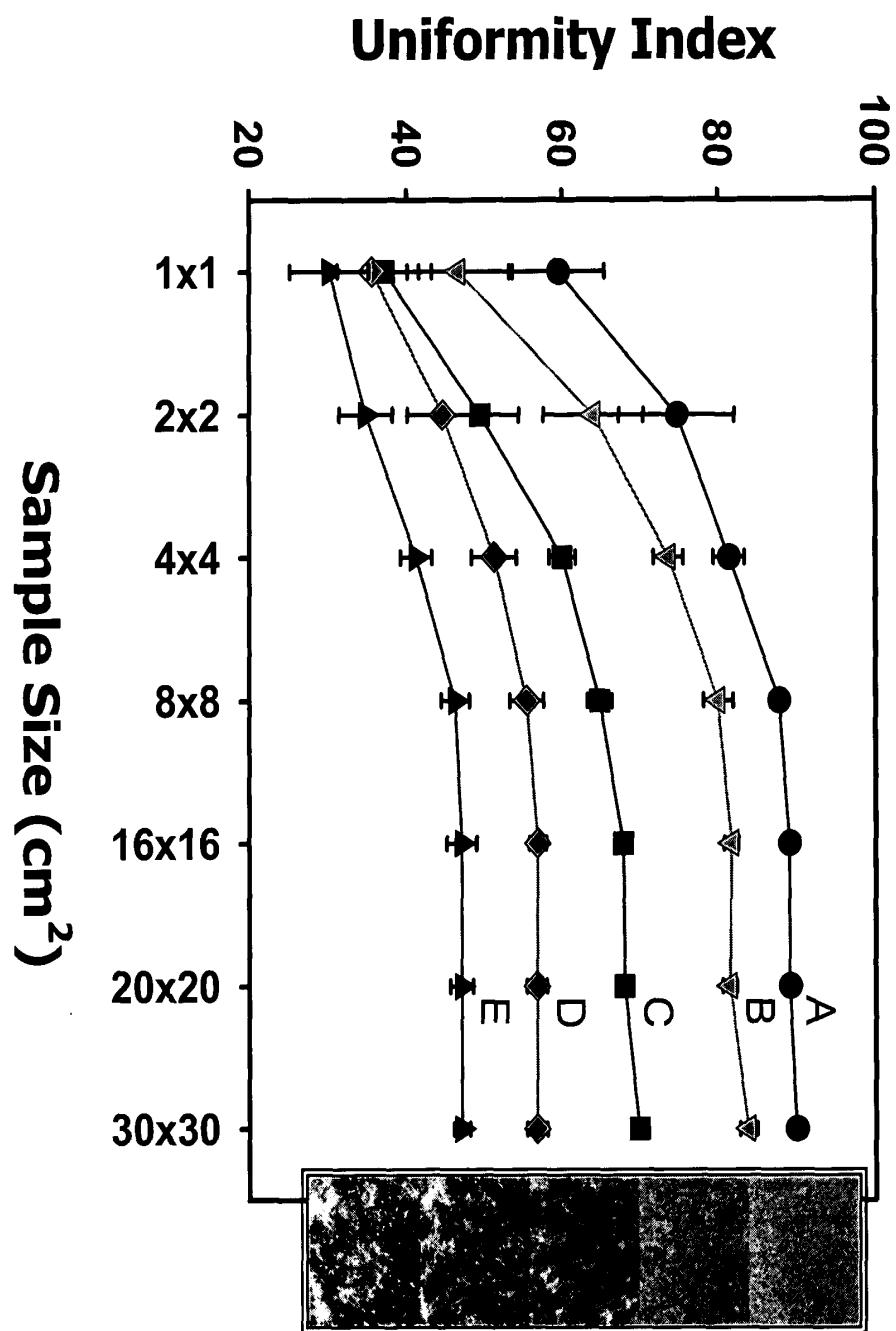


Fig. 10

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

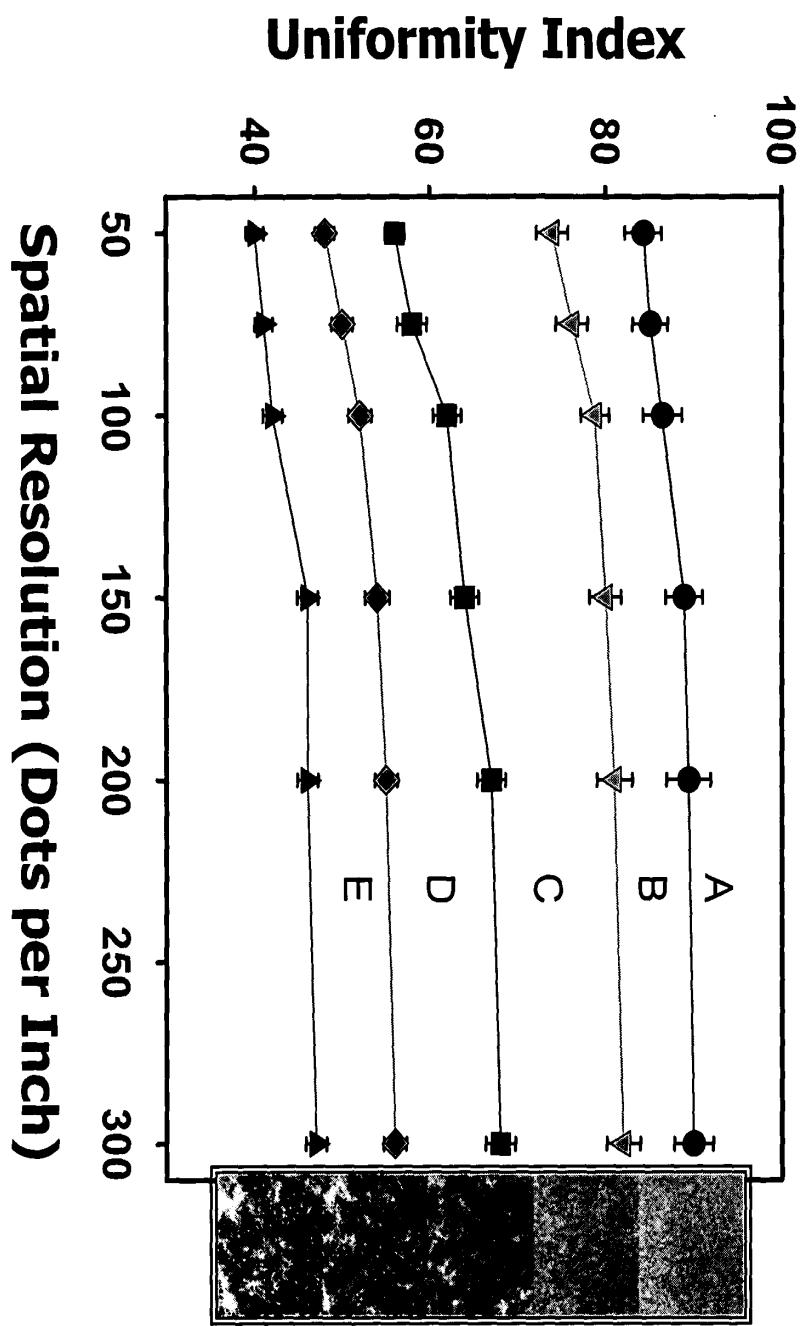


Fig. 11

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

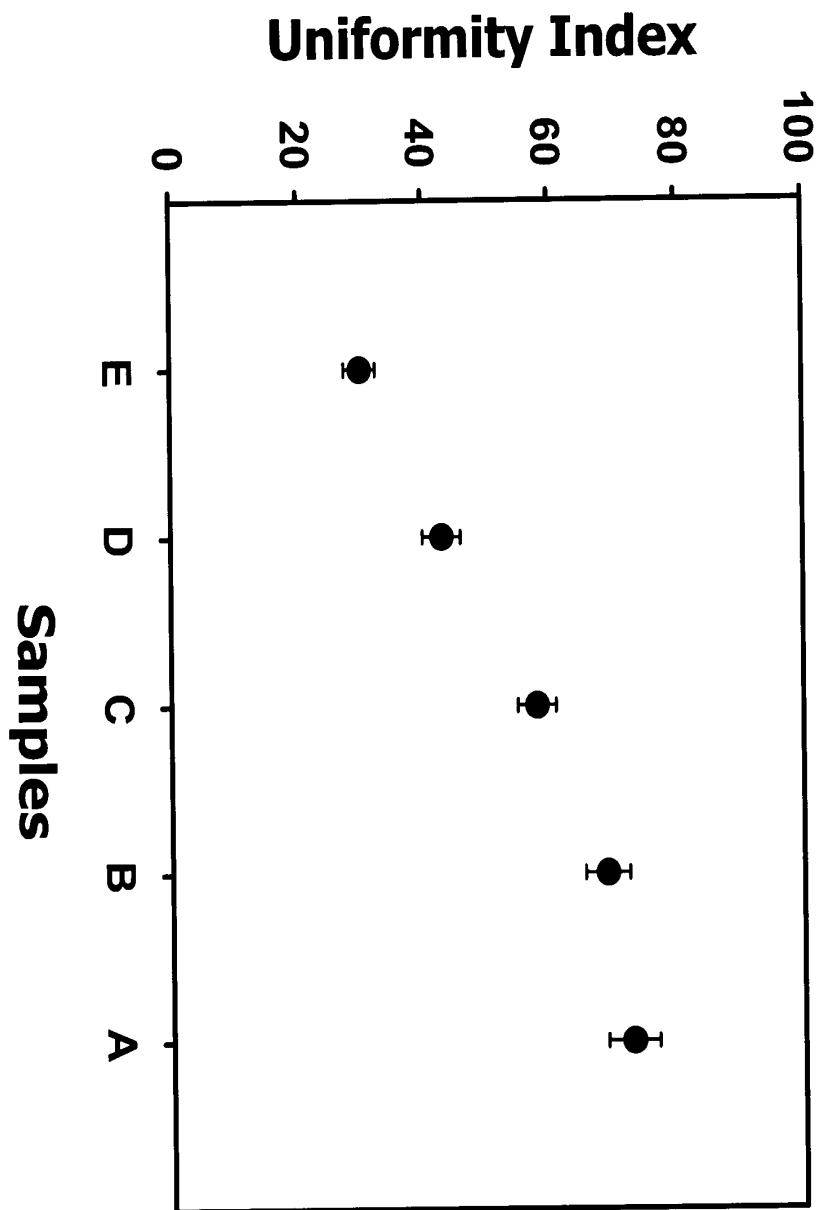


Fig. 12

Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

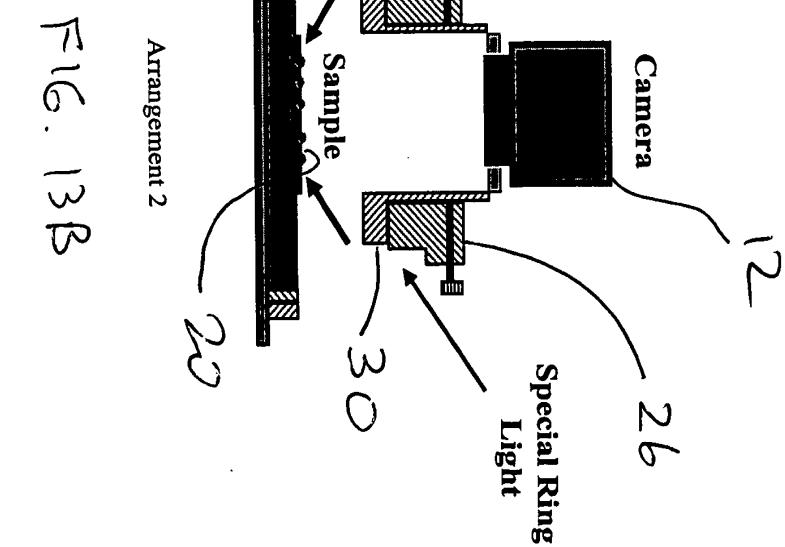
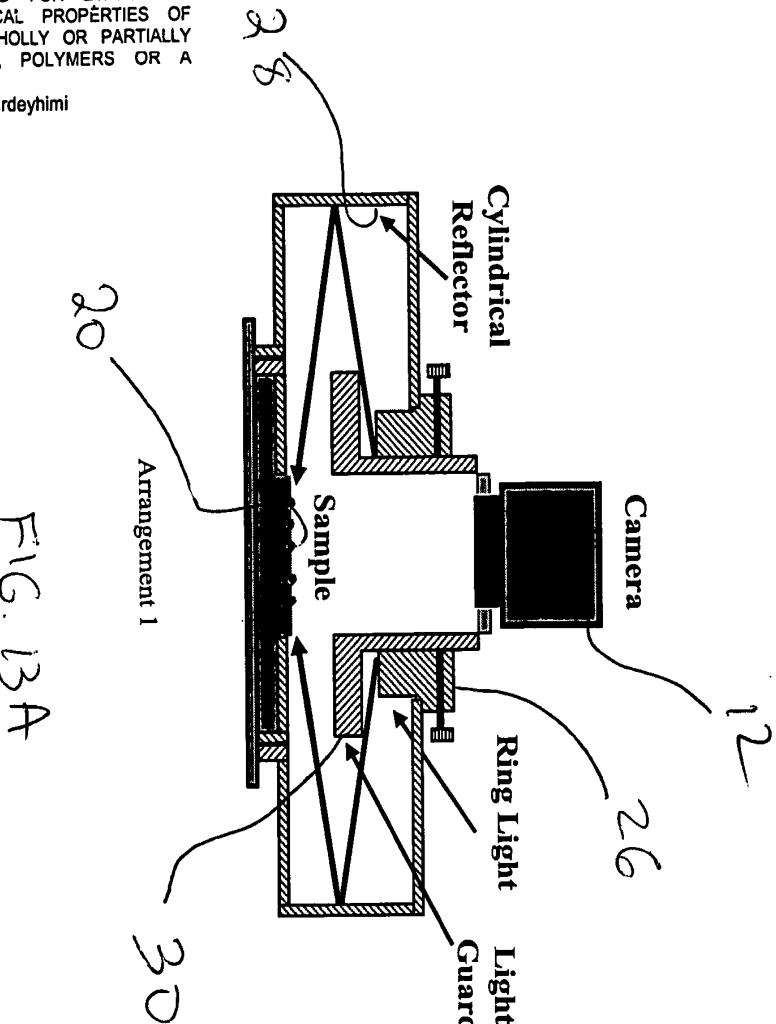


Fig. 13

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

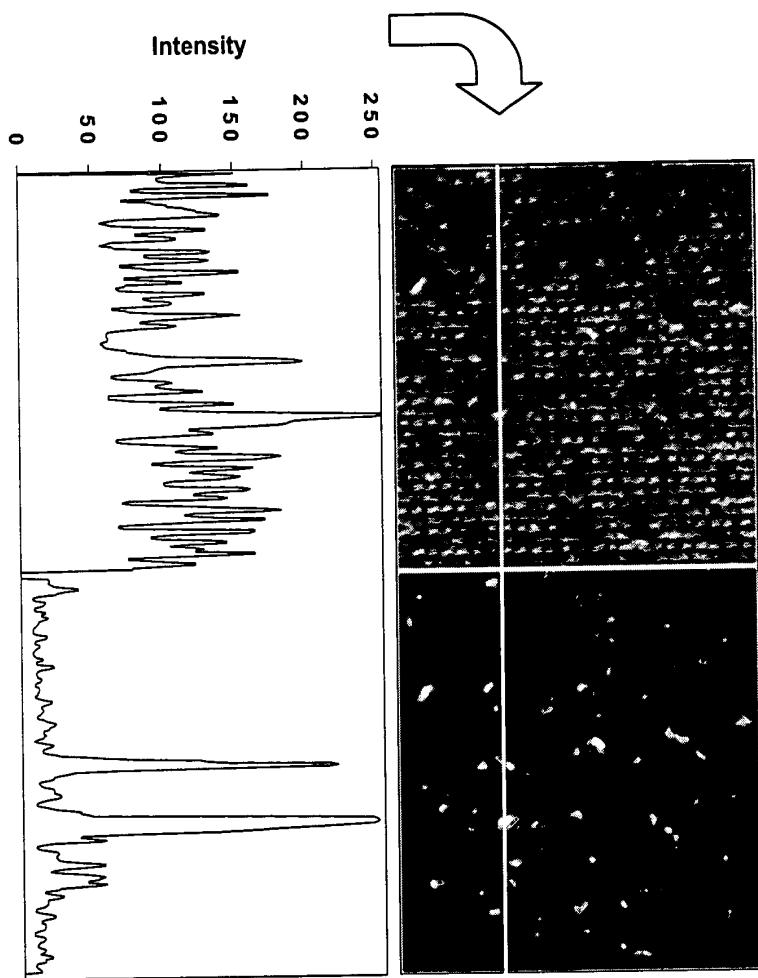


Fig. 14

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

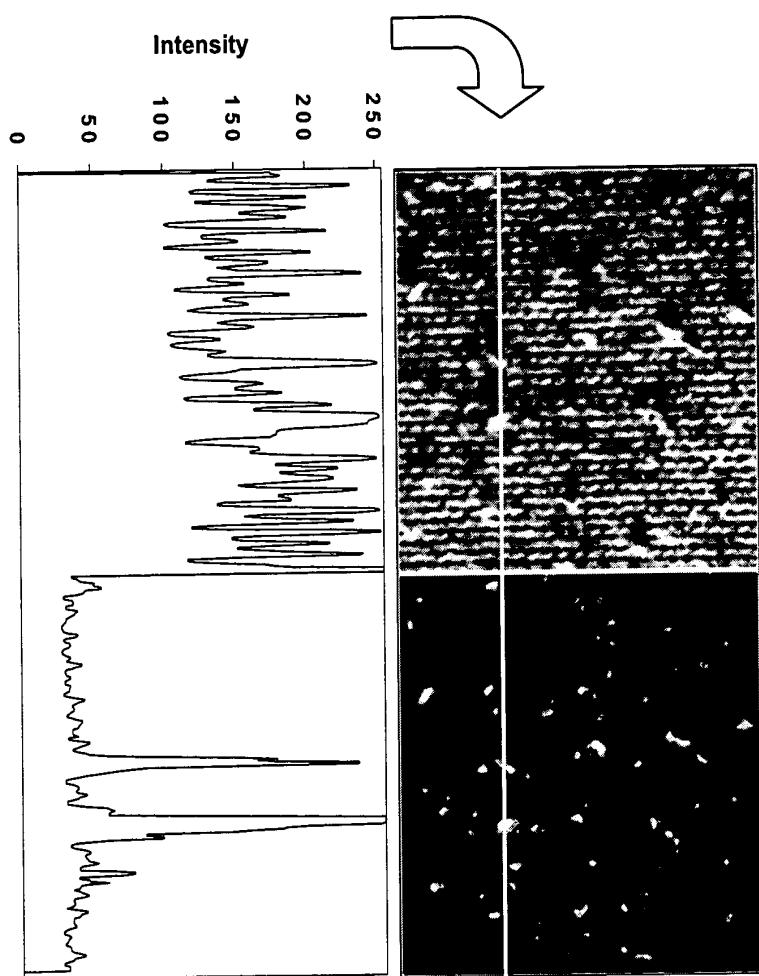
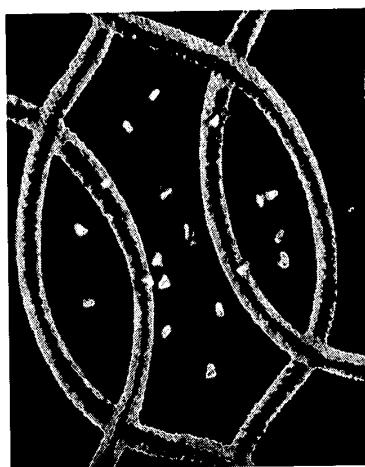


Fig. 15

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

Diffuse



Cylindrical

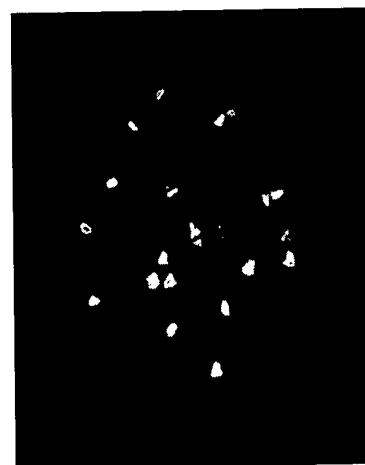


Fig. 16

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

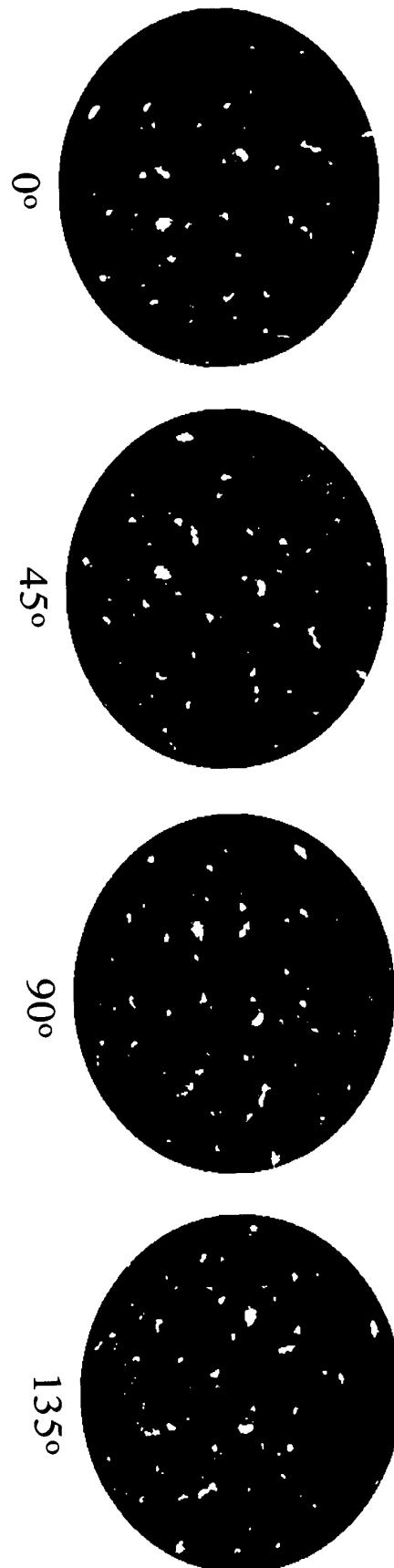


Fig. 17

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

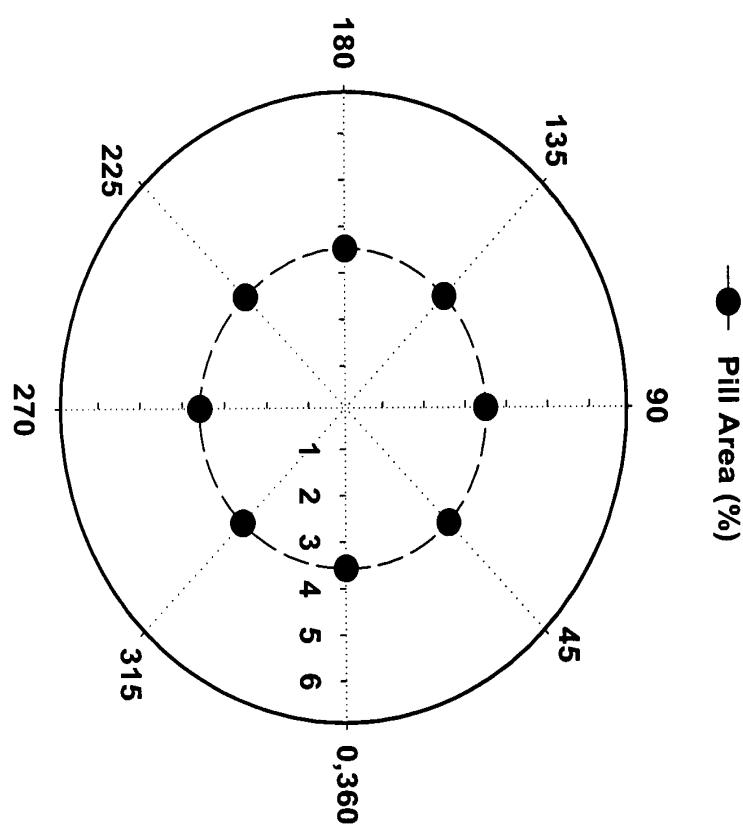


Fig. 18

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

FIG. 19A
Arrangement 1

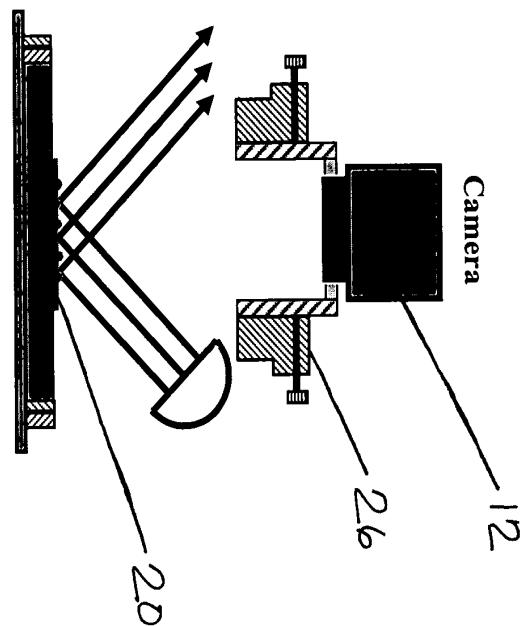


FIG. 19B
Arrangement 2

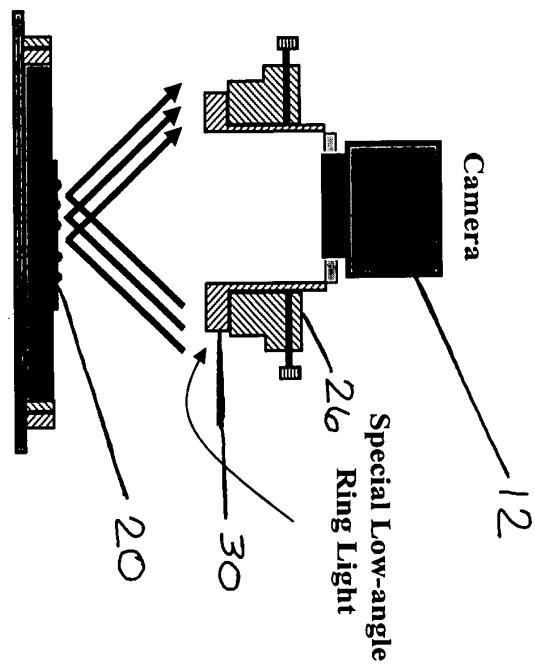


Fig. 19

Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

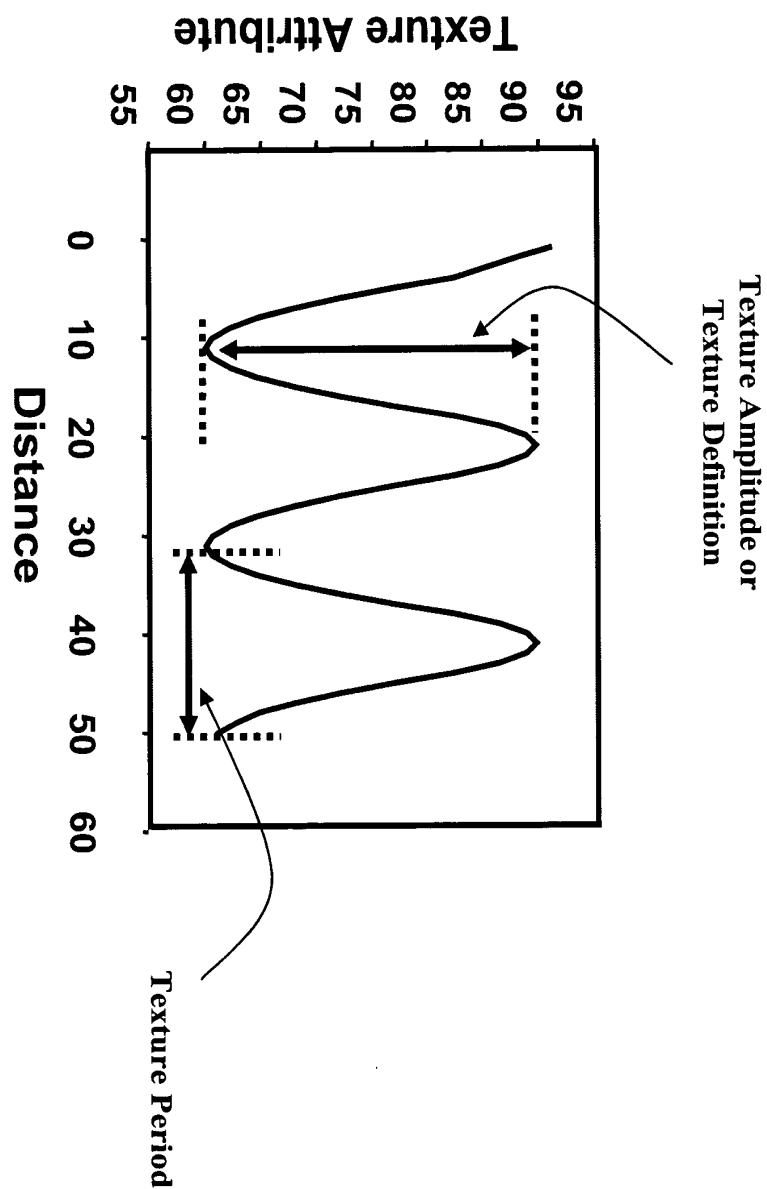


Fig. 20

Title: OPTICAL METHOD FOR EVALUATING
SURFACE AND PHYSICAL PROPERTIES OF
STRUCTURES MADE WHOLLY OR PARTIALLY
FROM FIBERS, FILMS, POLYMERS OR A
COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

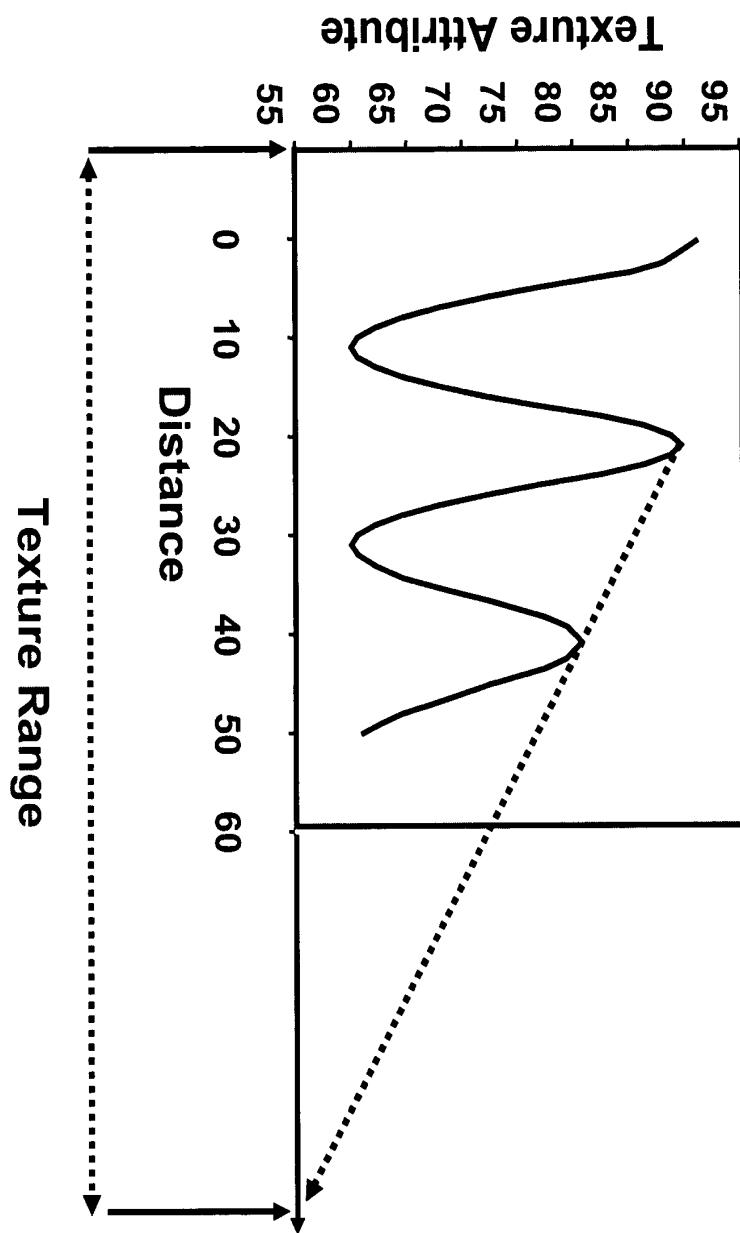


Fig. 21

Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

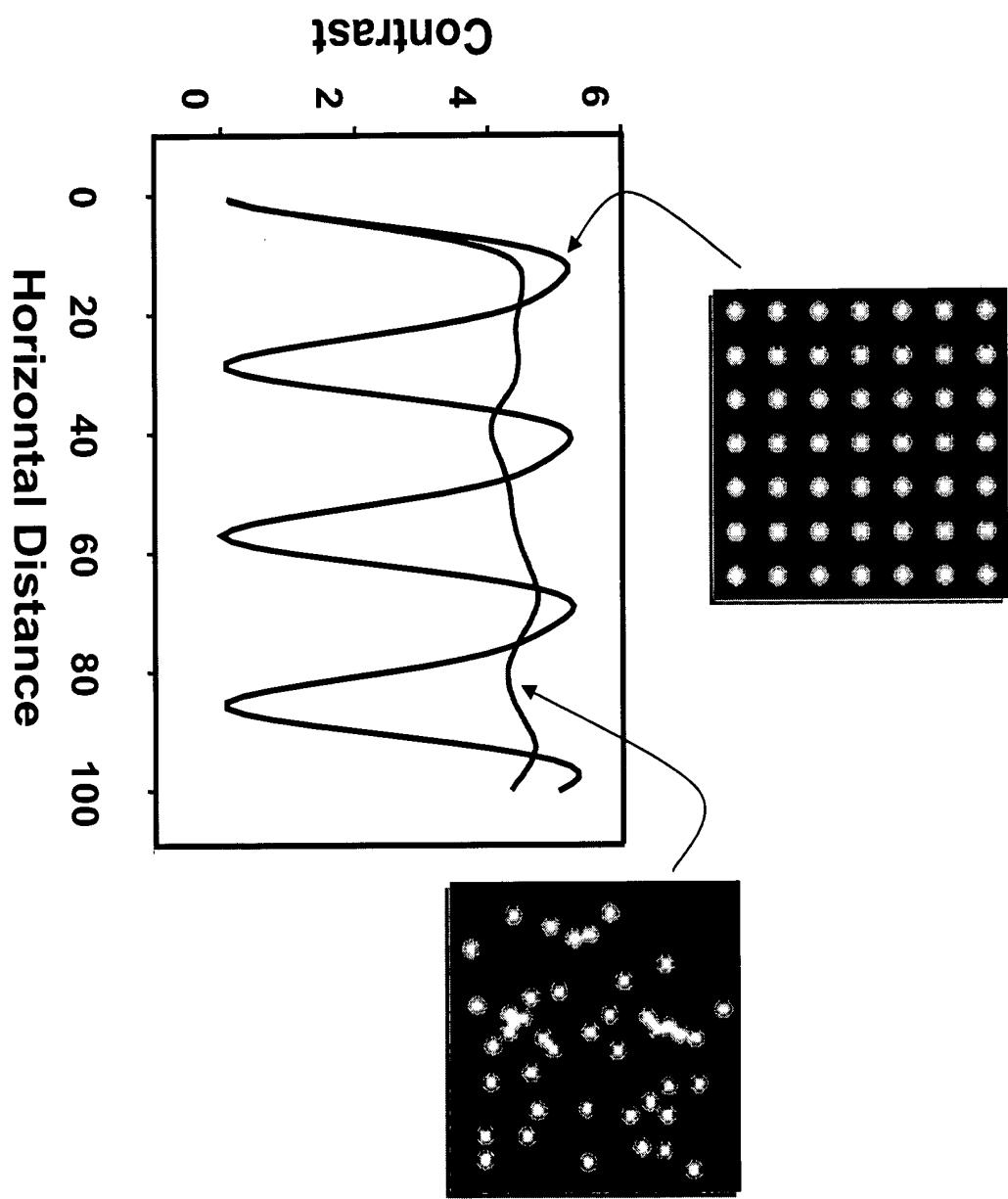
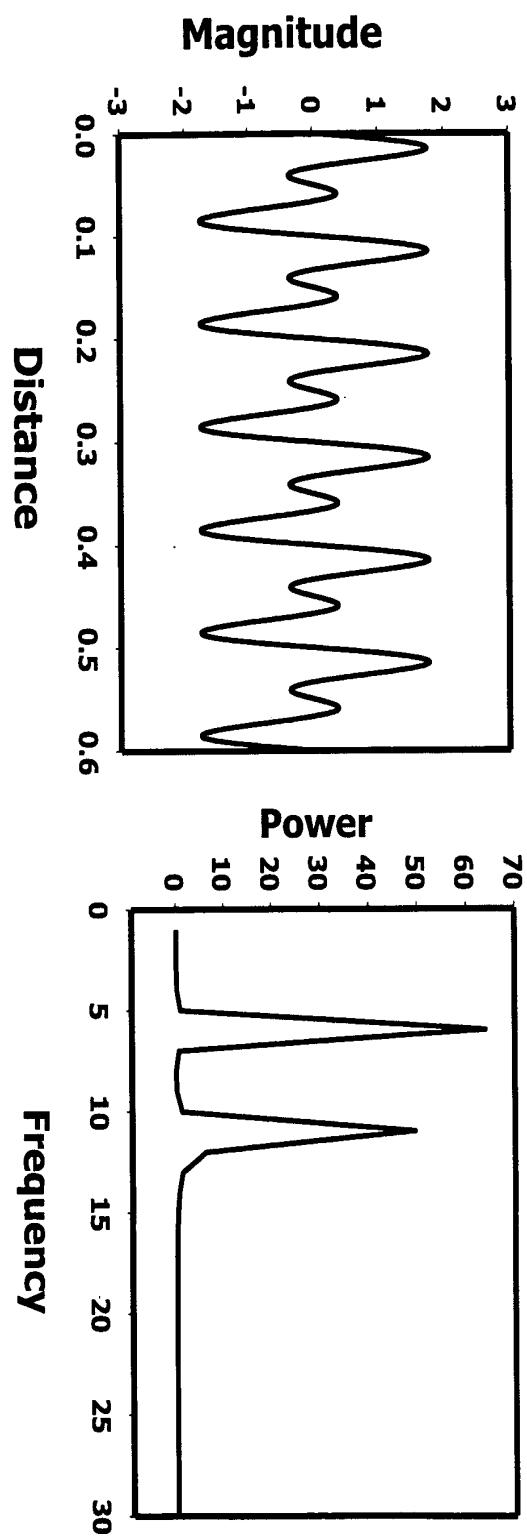


Fig. 22

Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180



Texture Period = $2\pi / kF$
 F = Estimated Frequency
 K = Distance

Fig. 23

FIG. 23A

FIG. 23 B

Title: OPTICAL METHOD FOR EVALUATING SURFACE AND PHYSICAL PROPERTIES OF STRUCTURES MADE WHOLLY OR PARTIALLY FROM FIBERS, FILMS, POLYMERS OR A COMBINATION THEREOF
Applicant(s): Behnam Pourdeyhimi
Atty. Docket No.: 297/180

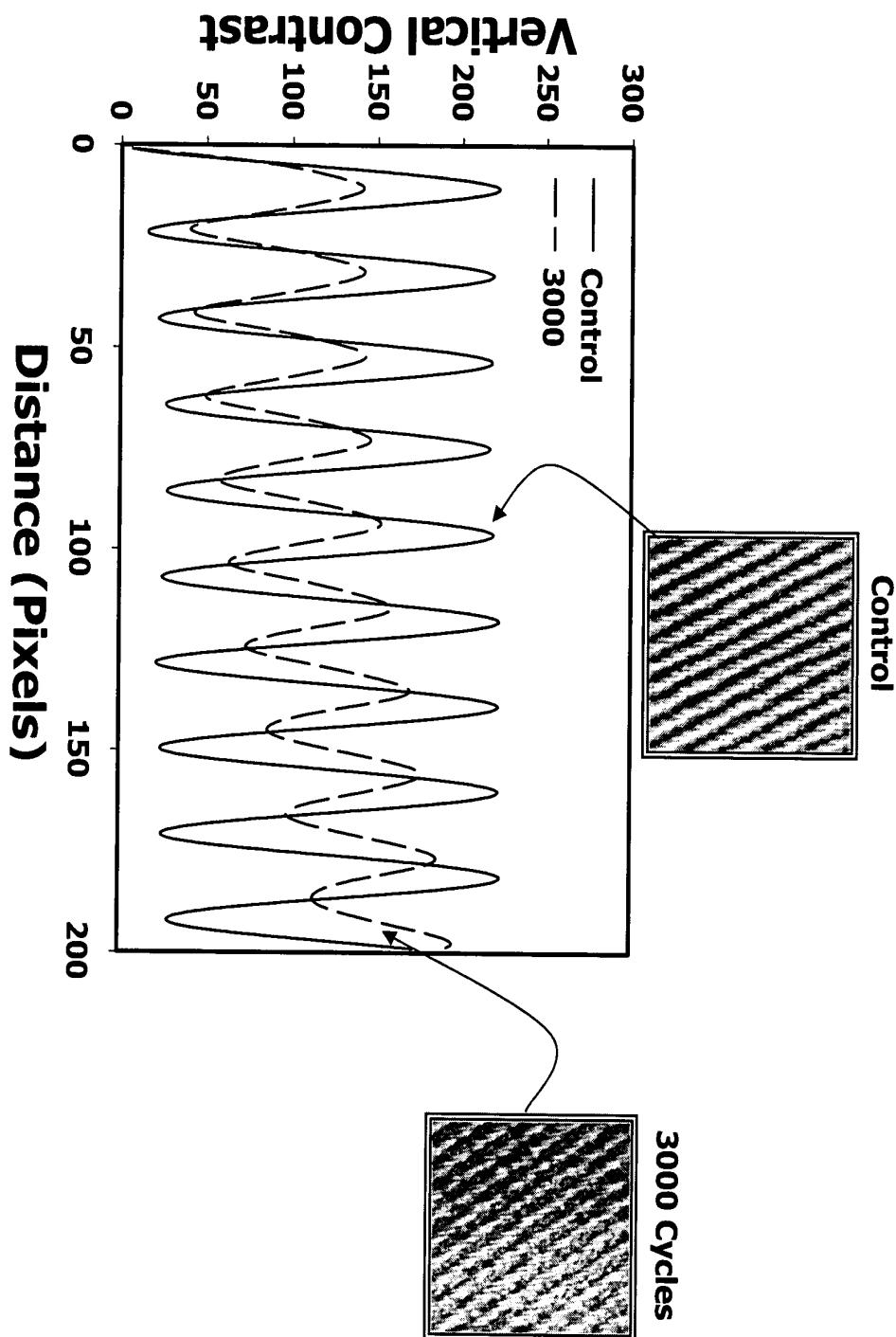


Fig. 24